

POSTNIKOV, I.M., professor, doktor tekhnicheskikh nauk; PAVLOV, V.M.,
kandidat tekhnicheskikh nauk; BORUSHKO, V.S., inzhener.

Use of solid poles in large hydraulic generators. Vest. elektroprom.
27 no. 11:38-40 N '56. (MLRA 9:12)

1. Kiyevskiy politekhnicheskiy institut (for Postnikov and Pavlov).
2. Khar'kovskiy Elektromekhanicheskiy i turbogeneratorny zavod
(for Borushko).

(Electric generators)

POKUSHAKO, L.S.

25(2) PLANE I BOOK EXPLOITATION 307/1636

Novaya mashina, sbornik statey o novykh mashinakh, avtomaticheskoy upravleniyu na Kharkovskiy Polytechnicheskiy Universitet, 1955-1958 g. (New Machines: Collection of Articles on Machines, Motors, and Apparatus Made in Kharkov Plants From 1955 to 1958) / Kharkov / Kharkovskoye obshchestvo izd-vo, 1958. 226 p. 8,500 copies printed.

Compilers: P.I. Zmaga; Scientific Eds.: V.A. Bulgakov (Chief Engineer, Kharkov Electromechanical Plant), S.A. Vorob'yev (Candidate of Technical Sciences, Docent), L.A. Shubenko-Shubin (Chief Machine Designer, Kharkov Turbine Plant, and Corresponding Member, Ukrainian SSR Academy of Sciences); Ed.: Ya.Ye. Donokoy; Tech. Ed.: M.G. Shevchenko.

PURPOSE: This collection of articles is to acquaint the reader with the latest developments and attainments of the Kharkov machinery manufacturing industry during the 1955-58 period.

CONTENTS: The book, prepared in the form of a descriptive catalog, presents the latest information on machinery and equipment manufactured by Kharkov plants from 1955-58. A detailed description is given of the following machines and equipment: steam turbines, tractors, self-propelled chassis, diesel engines, diesel locomotives, machine tools including unit metal-cutting machine tools, conveyors, road building machinery, electric power generators, and electrical and electronic instruments. Numerous photographs of the above-listed machinery and equipment are included in the text. No personalities are mentioned. There are no references.

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New Machines: Collection of Articles (Cont.) 307/1636

Zavorotnyy, I.P., Chief Designer of the Kharkov Plant for Boiling and Transport Equipment Ismil Lenin. Equipment for the Mechanization of Heavy and Labor-consuming Jobs 154

ELECTRICAL MACHINES AND APPARATUS

Berushko, V.S., Chief Engineer of the Kharkov Plant for Electrical and Electromotive Equipment. For a New Technology? 161

Pesenko, S.A., Director of the Kharkov Electrical Engineering Plant. Basic Problems in Development of Electrical Machinery and Instrument Manufacture at the KhME (Kharkovskiy elektromekhanicheskiy zavod -- Kharkov Electromechanical Plant) 175

Sluckikh, A.I., Director of the Kharkov Electrical Engineering Plant. Let Us Increase the Output of Electric Motors and Electrical Instruments 187

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SOV/110-59-4-8/23

AUTHORS: Lemberg, A.Ya., and Borushko, V.S. (Engineers)

TITLE: Selection of the Main Parameters of Traction Generators that are Rated as Highly as Possible (Vybor osnovnykh parametrov predel'no ispol'zovannykh tyagovykh generatorov)

PERIODICAL: Vestnik Elektromyshlennosti, 1959, Nr 4, pp 27-30 (USSR)

ABSTRACT: Recent interest in diesel electric traction for the railways has led to the development of many designs for locomotives with electric transmission. The article gives recommendations about selection of the main dimensions of generators, with good technical and economic characteristics, but which consume small amounts of raw materials. The technical requirements of traction generators are first stated. Traction generators are intended for continuous operation at rated load and it must be possible to adjust the voltage over a reasonable range, say by a factor of 1.5. Commutation should be such as to permit overload of 1.6 times rated load. It is assumed that there are no compensating windings, silicone insulation is used, cold-rolled steels are used in the main poles and low loss steels for the remainder of the magnetic circuit. A lap winding should be used and the mean voltage between

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the commutator segments can be 14 V. The linear load on the armature is about 500 A/cm. A formula is then given for the relationship between power and diameter and the relationship is also plotted in Fig 1. Other design data are derived. The economic characteristics of the generator are then considered. It is shown that the weight of the magnetic system depends only on the armature diameter and formulae are given for the weights of different parts of the magnetic circuit as function of armature diameter. Expressions are then given for the weight of the copper and finally a complete expression is derived for the relationship between the weight of the whole magnetic system and the armature diameter. In addition to giving formulae for the various relationships they are also plotted in Fig 2. Finally expression (29) is given for the relationship between the total weight of the generator and the output, and the corresponding curve is given in Fig 1. Formula (29) shows that the weight of the active materials in the optimum generator does not depend upon the speed of rotation. This means that with

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the type of winding used a generator of any output up to
1320 kW can be made not only with the optimum armature
diameter given by expression (1) but also with a greater
diameter provided that the rotational speed is such that
the linear velocity does not exceed 70 m/sec. It is
concluded that the graphs given in the article can be
used to determine the generator weight and size
approximately.

Card 3/3 There are 2 figures.

SUBMITTED: November 5, 1958

BORUSHKO, V.S., inzh.; BUNER, V.B., inzh.; BERESTYUKOV, V.N., inzh.;
~~XXXXXXXXXX~~ KHVALL'KOVSKIY, A.V., kand. tekhn. nauk

Some relationships between winding rod insulation damage
of high-voltage generators and different parameters of
the rods. Elektrotehnika 36 no.8:11-13 Ag '64.

(MIRA 17:9)

ALEKSENKO, G.V.; BIRYUKOV, V.G.; BORISENKO, N.I.; BORUSHKO, V.S.; KOVALEV, N.N.;
KOSTENKO, M.P.; OBOLENSKIY, N.A.; PETROV, G.N.; ROZANOV, A.A.;
SKIDANENKO, I.T.; TIMOFEYEV, P.V.; CHILIKIN, M.G.; SHERMET'YEVSKIY, N.N.

Professor Andronik Gevondovich Iosif^{ian}, 1905- ; on his 60th
birthday. Elektrichestvo no.9:88 S '65.

(MIRA 18:10)

I 20314-66 ENT(1)

ACCESSION NR: AP5014483

UR/0292/65/000/006/0001/0004

621.313.236.1

AUTHOR: Borushko, V. S. (Engineer); Gurin, Ya. S. (Candidate of technical sciences) B

TITLE: Smooth-armature d-c machine 24

SOURCE: Elektrotehnika, no. 6, 1965, 1-4

TOPIC TAGS: dc machine, smooth armature dc machine

ABSTRACT: The distinguishing features and advantages of smooth-armature (slotless) d-c machines are considered, as well as some design and application problems of such machines. The smooth-armature machines (SAM) have better commutation; higher gap induction, lower flywheel effect, linear speed characteristics (with shunt or separate excitation), better armature cooling, and no tooth harmonics. However, SAM have greater excitation loss, lower efficiency, greater weight, and some other limitations. Formulas are supplied for selecting the electromagnetic loading and for determining the yoke diameter, machine weight, and flywheel effect. Data on Japanese "Minertia" 3000-rpm servomotors whose flywheel effect is about one-tenth of that of slot-type machine is examined. A Soviet-built 3.2-kw, 48-v, 3000-rpm experimental model withstood operation at 7000 rpm and exhibited practically sparkless performance at 8-times overloads. Orig. art. has: 3 figures and 26 formulas.

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ACCESSION NR: AP5014483

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: EE

NO REF SOV: 000

OTHER: 000

Card

2/2

BK

L 22739-66 EWP(k)/EWP(h)/EWT(d)/EWP(l)/EWP(v)

ACC NR: AP6013621

SOURCE CODE: UR/0105/65/000/009/0088/0088

AUTHOR: Aleksenko, G. V.; Biryukov, V. G.; Borisenko, N. I.; Borushko, V. S.;
Kovalev, N. N.; Kostenko, M. P.; Obolenskiy, N. A.; Petrov, G. N.; Rozanov, A. A.;
Skidanenko, I. T.; Timofeyev, P. V.; Chilikin, M. G.; Sheremet'yevskiy, N. N.

ORG: none

TITLE: Honoring the 60th birthday of Professor Andronik Gevondovich Iosif'yan

SOURCE: Elektrichestvo, no. 9, 1965, 88

TOPIC TAGS: academic personnel, scientific personnel, automation, electric engineering, servosystem, automatic control

ABSTRACT: 21 July 1965 was the 60th birthday of the eminent Soviet scientist in the field of electrical mechanics and automation, Dr. Techn. Sci., Professor, Member of the AS Armenian SSR, Hero of Socialist Labor, Laureate of the State Prize, A. G. Iosif'yan. His scientific contributions are numerous. During 1931-1934 he developed the theory of the combined synchronous control circuit with AC commutator generator. Subsequently, he invented the contactless selsyn. He was the first Soviet scientist to publish studies of thyatron-based servosystems for the control of electrical machinery. During 1940-1945 he made a major contribution to the theory of electrical machinery and automatic control by publishing studies on the general theory of the elec-

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UDC: 621.3:65.011.56

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ACC NR: AP6013621

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tromechanical amplifier (amplidyne) and power-driven synchronous servosystems. In his 35 years of scientific activity A. G. Iosif'yan has published more than 60 studies on many problems of electrical mechanics and automatic control and has been the author of 24 inventions. A. G. Iosif'yan is the founder and director of the All-Union Order of Labor Red Banner Scientific Research Institute of Electromechanics, and it was on his initiative that branches of this institute have been established in Leningrad, Tomsk, Yerevan, Frunze, Iskra, and Kudinovo. Between 1950 and 1955 he held the elective office of Vice President of the Armenian Academy of Sciences, and since 1955 he has been Editor-in-Chief of the journal Elektrotehnika (Electrical Engineering). He is also the bearer of many other honors. Among other things, he was elected delegate to the 22nd Congress of the CPSU. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 09 / SUBM DATE: none

Card 2/2 *LD*

LAPITSKAYA, M.P., kand. tekhn. nauk; BORUSHKO, Ye.P., student; MUKHARSKIY,
T.A., student

Investigating the process of forced hydraulic conveying of peat
ashes under laboratory conditions. Sbor. nauch. rab. Bel. politekh.
inst. no.69:17-27 '58. (MIRA 12:7)
(Ash disposal)

BORUSHKOV, R.M.

Threefold perforation of the stomach by an ulcer. Vest.khir.
no.9:127 '61. (MIRA 15:3)

1. Iz khirurgicheskogo otdeleniya medsanchasti (nach. - N.A.
Suspitsin) Nizhne-Turinskoy elektrostantsii Sverdlovskoy oblasti.
Adres avtora: Sverdlovskaya oblast', Nizhne-Turinskaya Gosu-
darstvennaya elektrostantsiya, ul. Yablochkova, d.21, kv.6.
(STOMACH--ULCERS)

MALYY, D.D.; MIKHEL', I.M., red.; BORUSHMOY, I.V., red.; KOVAL'SKAYA,
I.F., tekhn. red.; VIKTOROVA, Z.N., tekhn. red.

[Automation and mechanization of control operations in the
machinery industry] Avtomatizatsiya i mekhanizatsiya kontrol'-
nykh operatsii v mashinostroenii; obzor tematicheskoi vystavki
na VDNKh, IV kvartal 1960 g. (MIRA 16:5)
(Machinery industry) (Automation)

VLADZIYEVSKIY, A.P., doktor tekhn. nauk; ZOTOV, V.K.; ZUZANOV, G.I.; PEREFELI-
TSEY, P.G.; SVIRIDENKO, S.Kh.; SHCHEGOL'KOVA, L.I.; BORUSHMOY, I.V.,
red.; KOGAN, F.L., tekhn. red.

[Machine-tool industry in Italy; survey] Stankostroenie Italii; ob-
zor. Moskva, TSentr. in-t nauchno-tekhn. informatsii mashinostroeniia,
1961. 172 p. (MIRA 14:9)

(Italy--Machine-tool industry)

BRON, L.S.; TARTAKOVSKIY, Zh.E.; VLADZIIYEVSKIY, A.P., doktor tekhn. nauk,
prof., red.; BORUSHMOY, I.V., red.; ALEKSEYEVA, T.V., tekhn. red.

[Standardized components of machine-tool units; catalog] Normali-
zovannye uzly agregatnykh stankov; katalog. Moskva, 1961. 347 p.
(MIRA 14:11)

1. Moscow. Tsentral'nyy institut nauchno-tekhnicheskoy informatsii
mashinostroyeniya. 2. Chlen-korrespondent AN USSR (for Bunin, Odigin).
3. AN USSR (for Starodubov).
(Metallography) (Steel—Heat treatment)

ZUZANOV, G.I.; VLADZIYEVSKIY, A.F., doktor tekhn. nauk, red.;
BORUSHMOY, I.V., red.; KOVAL'SKAYA, I.F., tekhn. red.

[Survey of the foreign machine-tool industry] Obzor zaru-
bezhnogo stankostroeniia. Pod red. A.P. Vladzevskogo. Mo-
skva, TSINTIMASH, 1962. 160 p. (Seriia III: Metallore-
zhushchie stanki i instrument) (MIRA 15:11)
(Machine tools)

SHEVCHENKO, Ye.T.; KSENOFONTOV, I.A., nauchnyy red.; BORUSHMOY, I.V.,
red.; ALEKSEYEVA, T.V., tekhn. red.

[Woodworking equipment; catalog] Derevoobrabatyvaiushchee oborudovanie; katalog. Moskva, TSintimash, 1962. 249 p.
(MIRA 15:11)

(Woodworking machinery--Catalogs)

PEN'KOV, P.M., inzh., nauchnyy red.; BORUSHMOY, I.V., red.; ALEKSEYEVA,
T.V., tekhn. red.

[Machine tools; a catalog]Metalloreshushchie stanki; katalog.
Moskva, 1962. 214 p. (MIRA 16:3)

1. TSentral'nyy institut nauchno-tekhnicheskoy informatsii po
avtomatizatsii i mashinostroyeniyu.
(Machine tools--Catalogs)

KOSTOUSOV, A.I.; VASIL'YEV, V.S.; GRECHUKHIN, A.I.; DEGTYARENKO, N.S.; PETROCHENKOV, A.G.; PROKOPOVICH, A.Ye.; TELESNOV, A.P.; SHEVYAKOV, L.N.; GONCHAROVA, S.L., nauchn. red.; BORUSHMOY, I.V., red.; LOGINOVA, R.A., red.; MONAKHOVA, N.F., red.; SHCHEGLOVA, I.B., red.; KOVAL'SKAYA, I.F., tekhn. red.

[Machine-tool industry in Japan according to materials from the Machine-tool Exhibition of 1962 in Osaka] Stankostroenie Iaponii; po materialam stankostroitel'noi vystavki 1962 goda v g.Osaka. Moskva, 1963. 473 p. (MIRA 16:12)

1. Moscow. Tsentral'nyy institut nauchno-tekhnicheskoy informatsii po avtomatizatsii i mashinostroyeniyu. (Japan--Machine-tool industry)

KOKOREV, V.A.; SIDOROV, Yu.P., kandi. tekhn. nauk;
BELOGUR-YASNOVSKAYA, R.I., nauchn. red.; ~~GORUSHEV~~,
I.V., red.

[Basic trends in the improvement of the design of looms
and the development of a new type of weaving machinery;
a survey] Osnovnye napravleniya usovershenstvovaniia
konstruktsii tkatskikh stankov i sozdanie tkatskikh ma-
shin novogo tipa; obzor. Moskva, 1963. 97 p. (Seriiia III:
Novye mashiny, oborudovanie i sredstva avtomatizatsii, no.67)
(MIRA 17:10)

1. Moscow. Tsentral'nyy institut nauchno-tekhnicheskoy in-
formatsii po avtomatizatsii i mashinostroyeniyu.

BORUSIEWICZ, Leslaw, mgr. inz.; RYNIO, Boguslaw, inz.; DZIADUS, Jozef

The portable overhead line sag indicator. Energetyka 16 no.4:125-127
Ap '62.

Borusiewicz, L

621.316.1.014.3
1913. AN APPLICATION OF THE THEORY OF CONFORMAL
TRANSFORMATIONS TO THE DETERMINATION OF THE THREE-
PHASE SHORT-CIRCUIT POWER IN UNIFORM HIGH-VOLTAGE
CABLE SYSTEMS. B. L. Borusiewicz and J. Cwik.
Kierstys (Poland), Vol. 10, No. 4, 195-8 (1956). In Polish.
Gives practical diagrams for determining the a.c. power in
8 kV aluminum and copper cable systems. The derivation of the
diagrams by inversion is explained and their use is illustrated by
examples. E.M. Dembinski

BORUSIEMICZ, Leslaw, mgr inz.; SOWINSKI Michal, inz.

Instrument for measuring the distances between the conductors of overhead lines. Energetyka Pol 17, no.10:317-318 0 '63.

GORSKI, Aleksander, inz.; MORTAS, Wladyslaw, inz.; BORUSIEWICZ, Leslaw, inz.

A new prefabricated 6 kv transformer station. Energetyka Pol
18 no.3:85-86 Mr'6A.

1. Zaklad Energetyczny, Gliwice.

BOGUSIEWICZ, Lesław, mgr inż.; SOWIŃSKI, Michał, inż.

Simplified voltmeter for recording the voltage fluctuations in
supplying networks. Energetyka Pol 19 no.1:17-19 Ja '65.

BORUSIEWICZ, W.

Applied Mech. Rev.
v. 7, Mar. 1954
Rods, Beams, Shafts
Springs, Cables etc.

741. Borusiewicz, W. Calculation of prestressed beams by means of core points (in Polish), *Inżyn. Budown.* 8, 10, 287-301 Oct. 1953.

Author presents a method of static analysis for calculation of prestressed beams having sections most used in practice (rectangular, T, and I form), treating his contribution in connection with paper of B. S. Kants'off (*Ann. Trans. publies. Belg.* 97, 3, 265-286, 1944). In his analysis author uses the core moments. Four simple formulas define the limit conditions of elastic state of beam.

W. Olczak, Poland

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FROM

BORODKIN, G. Ye.

TO

BORUSIEWICZ, W.